

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) ~~A device for inspecting solder connections between a component and a substrate or between two components or substrates, the device comprising:~~

~~an image receiving unit;~~

~~an image transmitting device, including a first end and a second end, the first end coupled to said image receiving unit;~~

~~a tip assembly removably coupled to said second end of said image transmitting device, said tip assembly further including a reflective device and an image receiving aperture, the tip assembly configured to transmit an image of said solder connections received by said reflective device, through said image transmitting device, to said image receiving unit; and~~

~~an illumination device including at least one light emitting aperture disposed adjacent said image receiving aperture, said light emitting aperture directed towards said solder connections to be inspected. An optical inspection device, comprising:~~

an image receiving unit;

an elongated assembly extending from the image receiving unit;

an image receiving aperture disposed on a distal end of the elongated assembly, wherein the elongated assembly is configured to transmit an image therethrough from the image receiving aperture to the image receiving unit, wherein the elongated assembly is dimensioned to position the image receiving aperture adjacent to an object to be inspected, and wherein the distal end of the elongated assembly does not comprise a lens.

2. (New) The device of claim 1, wherein the image receiving aperture has a fixed diameter.

3. (New) The device of claim 1, wherein the image receiving unit is a camera.

4. (New) The device of claim 1, wherein the image receiving unit is a CCD.

5. (New) The device of claim 1, wherein the elongated assembly comprises: light transmission optics from the image receiving unit to the image receiving aperture.

6. (New) The device of claim 5, wherein the light transmission optics comprises a plurality of fiber optic cables.

7. (New) The device of claim 1, further comprising: an illumination source configured to illuminate the object to be inspected.

8. (New) The device of claim 7, wherein the illumination source is positioned adjacent to the image receiving aperture on the distal end of the image receiving aperture.

9. (New) The device of claim 8, wherein the at least one illumination aperture comprises:

a pair of illumination apertures disposed on opposite sides of the image receiving aperture.

10. (New) The device of claim 1, further comprising: a mirror in the distal end of the elongated assembly adjacent to the image aperture.

11. (New) The device of claim 1, further comprising: a display device coupled to the image receiving unit.

12. (New) The device of claim 1, wherein the distal end of the elongated assembly is removable.

13. (New) The device of claim 8, further comprising: a second illumination source, wherein the second illumination source is movable independently of the elongated assembly.

14. (New) The device of claim 13, wherein the second illumination source comprises:

a flexible shaft; and

at least one LED at a distal end of the flexible shaft.

15. (New) The device of claim 1, wherein the object to be inspected is a solder connection.